

ABSTRACT OF THE DISCLOSURE

5 An electric circuit for a vehicle electrical system powered by a voltage supply. The circuit includes a control stage having a switching device, a switching module, a signal output, and a connecting line connecting the signal output to the electrical system. The switching device includes a switching element switchable between two switching states for generating respective switching state output signals at the signal output to switch the electrical system between functional states. The switching module includes a non-volatile flip-flop formed by EEPROM cells which are operable for storing the switching state. The switching module maintains the switching state output signal to maintain the functional state of the electrical system until the switching element is switched to a different switching state, and maintains the switching state output signal to maintain the functional state of the electrical system during a voltage supply interruption.